

Title (en)

METHOD AND SYSTEM FOR MONITORING A PANTOGRAPH OF A RAILWAY VEHICLE AND RAILWAY VEHICLE

Title (de)

VERFAHREN UND SYSTEM ZUR ÜBERWACHUNG EINES PANTOGRAFEN EINES SCHIENENFAHRZEUGS UND SCHIENENFAHRZEUG

Title (fr)

PROCÉDÉ ET SYSTÈME POUR SURVEILLER UN PANTOGRAPHE D'UN VÉHICULE FERROVIAIRE ET VÉHICULE FERROVIAIRE

Publication

EP 3165398 B1 20230726 (EN)

Application

EP 15306778 A 20151109

Priority

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Abstract (en)

[origin: EP3165398A1] The present invention relates to a system for monitoring a pantograph of a railway vehicle (1), the pantograph being adapted to be connected to a catenary (8) and electrically connected to a traction unit (14), the catenary being adapted to provide an alternating current to the railway vehicle, the system further comprising: a voltage step detection device (26, 28, 66) for detecting a voltage step of a pantograph voltage at the pantograph, a zero crossing detection device (42, 60, 66, 82) for detecting a zero crossing of a line current, the line current (I_L) being a portion of a pantograph current (I) provided to the traction unit (14), the pantograph current being the current flowing through the pantograph; and a bouncing detection portion (72) adapted to determine at least one bouncing time of the pantograph (6) based on one or more detected voltage steps of the voltage step detection device and/or one or more detected zero crossings of the zero crossing detection device.

IPC 8 full level

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CPC (source: EP US)

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